TECHNICAL PRESENTATION
ON SITE CHARACTERIZATION AND
GROUND-WATER MONITORING PLAN

to

ENVIRONMENTAL PROTECTION AGENCY REGION II

June 30, 1983

PONCE WASTE FACILITY PROJECT Ponce, Puerto Rico

Cecos International, Inc.
RECRA Research, Inc.
Law Engineering Testing Company

## LAW ENGINEERING TESTING COMPANY PONCE WASTE FACILITY PROJECT ORGANIZATION

PROJECT PRINCIPAL

- GERALD H. FOGLE, P.G., ASSISTANT VICE-PRESIDENT

PROJECT MANAGER

- JAMES D. GUSTIN, P.G.

SENIOR TECHNICAL REVIEWER - JAMES R. WALLACE, Sc.D., P.E., ASSISTANT VICE-PRESIDENT

PROJECT DESIGN ENGINEER - GLENN N. COFFMAN, P.E.

PROJECT GEOTECHNICAL ENGINEER

- L. DAVID WHEELESS, P.E., ASSISTANT VICE-PRESIDENT

PROJECT GEOLOGIST/ GEOPHYSICIST

- ROBERT M. WHITE, P.E., P.G.

PROJECT GEOHYDROLOGIST

- BRUCE L. JERNIGAN, P.G.

6D

CA83-06/30/83 PRD 980594 709

June 20, 1983

Mr. Joseph Torlucci Region II Coordinator Ertec Atlantic, Inc. 15 Campus Drive, Suite 100 Somerset, NJ 08873

Re: EPA Contract 69-01-6515 Work Assignment R02-002

Dear Mr. Torlucci:

I am transmitting to you a groundwater monitoring plan for CECOS International to be reviewed as per John Jimenez.

Mr. Jimenez has requested that you submit your comments to him on Wednesday, June 22, by telephone. Please speak to Mr. Jimenez for more details.

Sincerely yours,

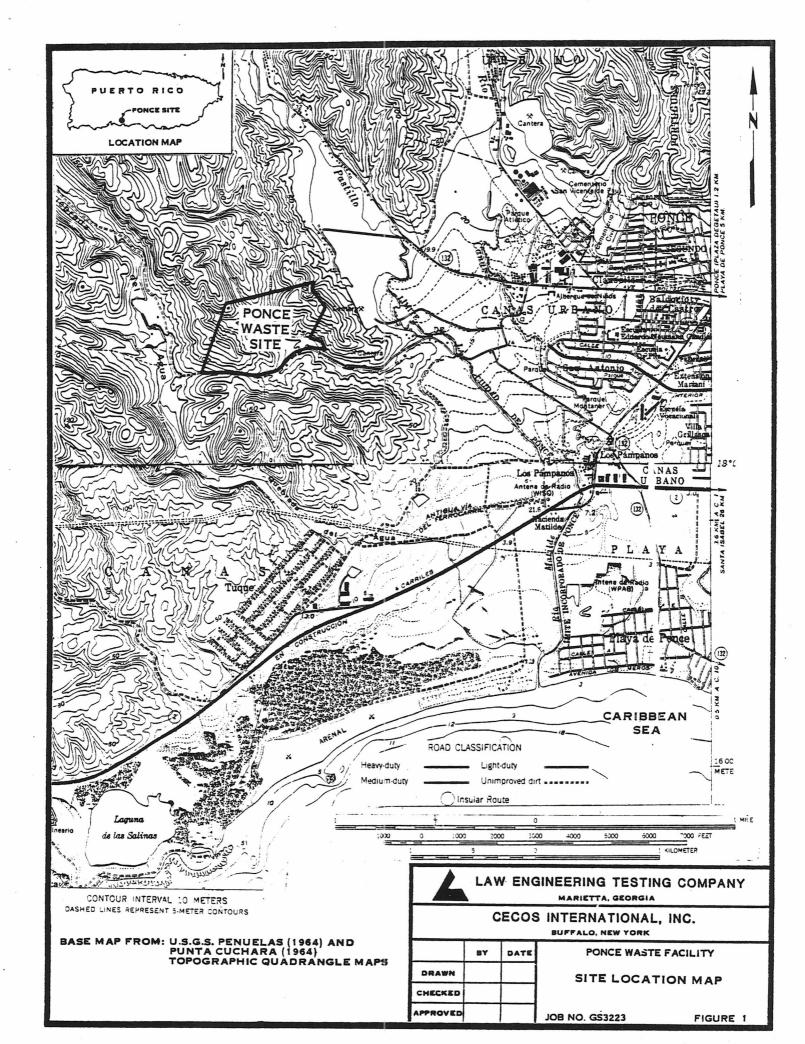
Barbara Kropf Environmental Protection Specialist Solid Waste Branch

Enclosure

bcc: John Jimenez, 2AWM-SW

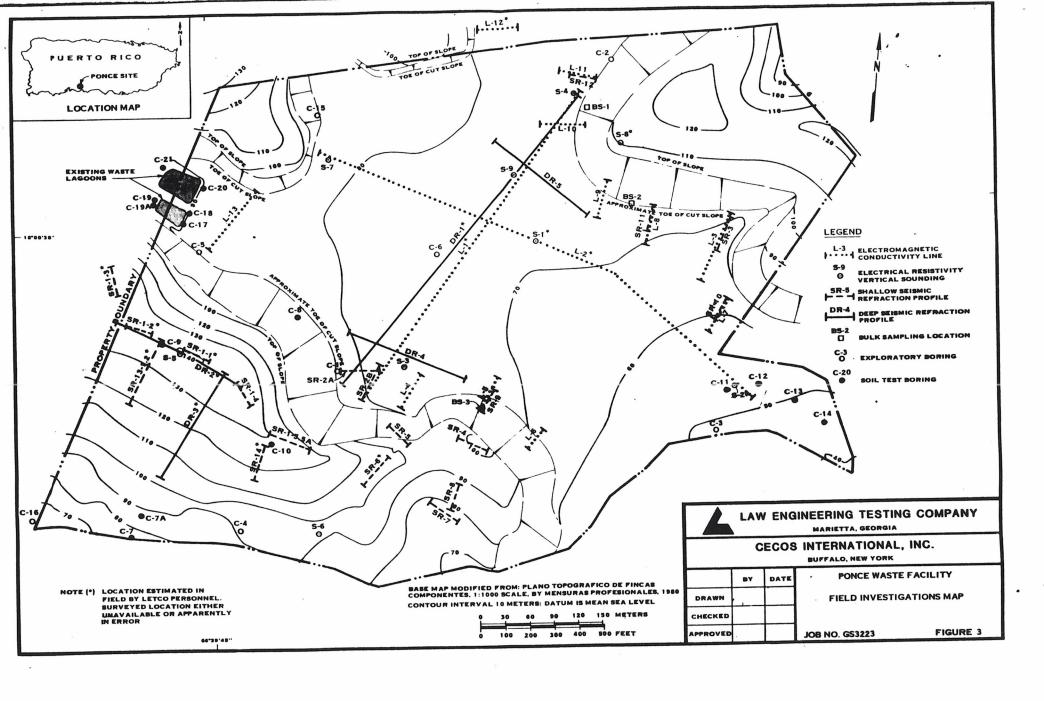
# LAW ENGINEERING TESTING COMPANY PROJECT PARTICIPATION PONCE WASTE FACILITY

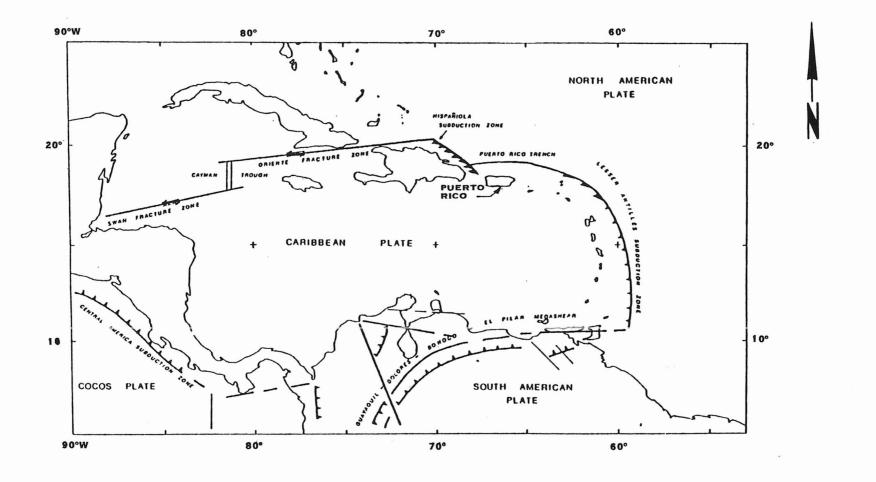
- SITE CHARACTERIZATION
  - GEOLOGY
  - GEOHYDROLOGY
  - SEISMICITY
  - GEOTECHNICAL
- GROUND-WATER MONITORING
  - PLANNING
  - WELL INSTALLATION
  - AQUIFER TESTING
- FACILITY DESIGN (DESIGN CRITERIA VIA RECRA RESEARCH)
  - DRAWINGS
  - SPECIFICATIONS
  - CONSTRUCTION BID PACKAGES
  - DESIGN REPORTS
- PART B PERMIT APPLICATION TECHNICAL INPUT
  - SITE DESCRIPTION
  - FACILITY DESCRIPTION
  - GROUND-WATER MONITORING PLAN
  - CLOSURE PLAN
- CONSENT ORDER COMPLIANCE ITEMS
- CONSTRUCTION QUALITY CONTROL



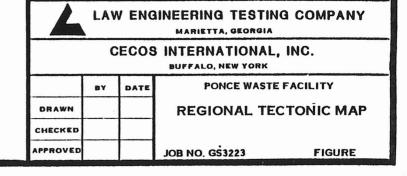
AERIAL

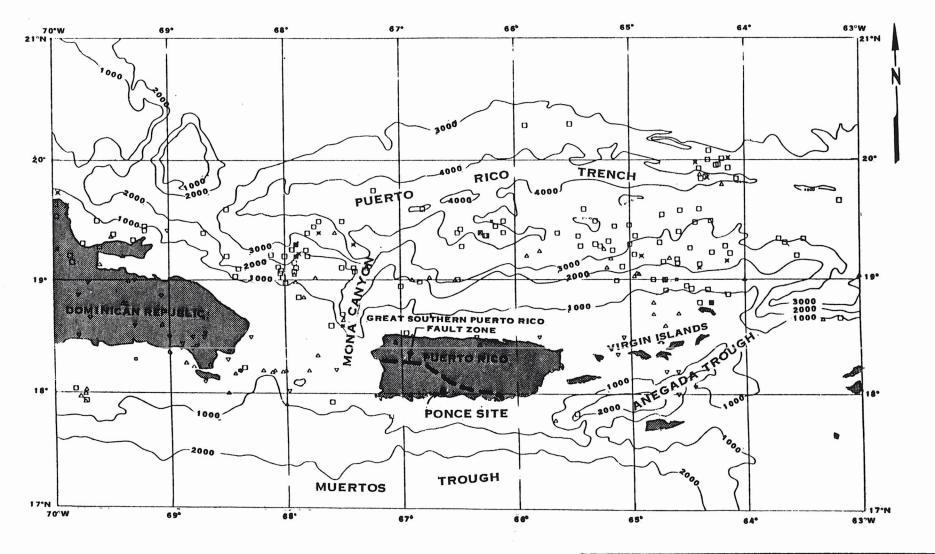
PHOTOGRAPHS





FROM: ASENCIO (1980), U.S.G.S. OPEN FILE REPORT 80-192





#### LEGEND

Puerto Rico Region Tectonic Zones and associated seismicity instrumentally recorded from 1964 to 1977. Symbols:  $\times$  denotes epicenter at depth < 25 km,  $\square$  depth > 25 and < 50 km,  $\Delta$  depth > 50 and < 100 km,  $\nabla$  depth > 100 km. Contour interval, 1,000 fathoms.

MODIFIED FROM: ASENCIO (1980), U.S.G.S. OPEN FILE REPORT 80-192



LAW ENGINEERING TESTING COMPANY

MARIETTA, GEORGIA

CECOS INTERNATIONAL, INC.
BUFFALO, NEW YORK

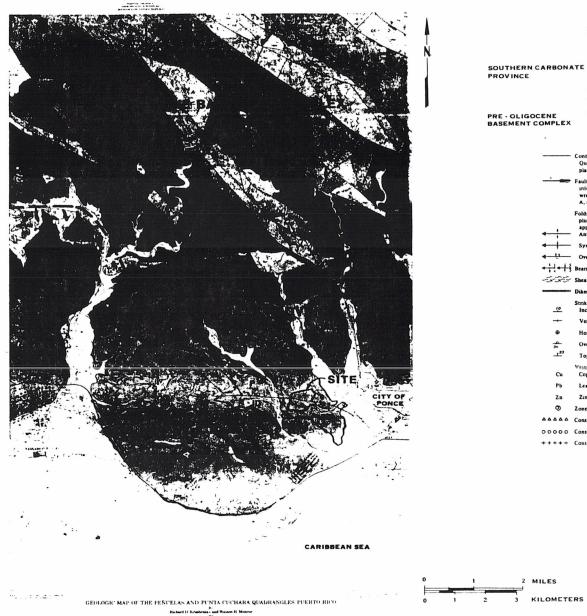
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PONCE WASTE FACILITY

REGIONAL SEISMOTECTONIC
MAP

JOB NO. GS3223

FIGURE 6



QUARTERNARY ALLUVIUM MIOCENE P - PONCE LIMESTONE OLIGOCENE/ MIOCENE JD - JUANA DIAZ FORMATION EOCENE - CRETACEOUS IGNEOUS SEDIMENTARY ROCKS Contact - Dotted where concealed; queried where inferred (contacts of Quaternary alluvial units are shown by a solid line by convention, placement ranges from assured to inferred) Fault - Long dashed where approximately located: short dashed where inferred; dotted where concealed; ball and bar on downthrown side, wrench fault and relative directions of movement shown by arrows;

A. away from observer; T., towards observer Folds - Showing crestline or troughline, direction and amount of plunge if known and direction of dip of limbs; long dashed where approximately located; dotted where concealed Bearing and plunge of small closely spaced folds Shear zone Top determined from graded bedding or crossbedding Lead-bearing minerals Zones or beds of abundant Crassostrea sp. AAAA Conspicuous beds of Kgsp in rock chiefly Kgpbl or Kgps 00000 Conspicuous beds of Kgpbl or Kgps in Ky +++++ Constituous beds of Ky in Kgpbi or Kgps



### LAW ENGINEERING TESTING COMPANY

MARIETTA, GEORGIA

#### CECOS INTERNATIONAL, INC.

BUFFALO, NEW YORK

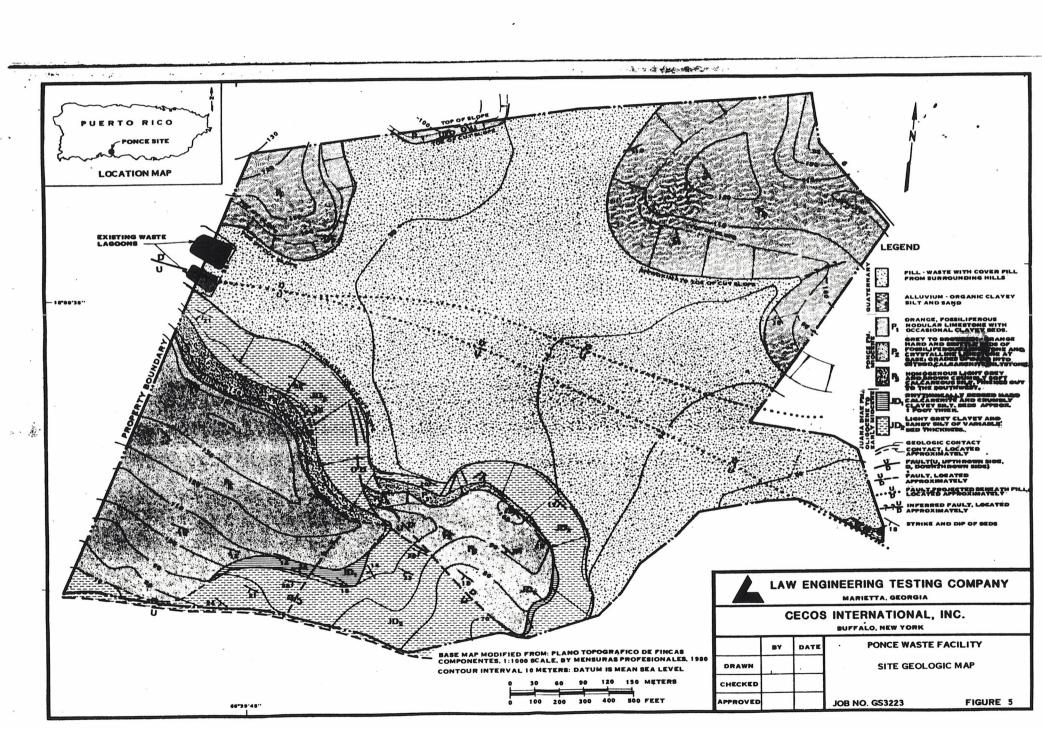
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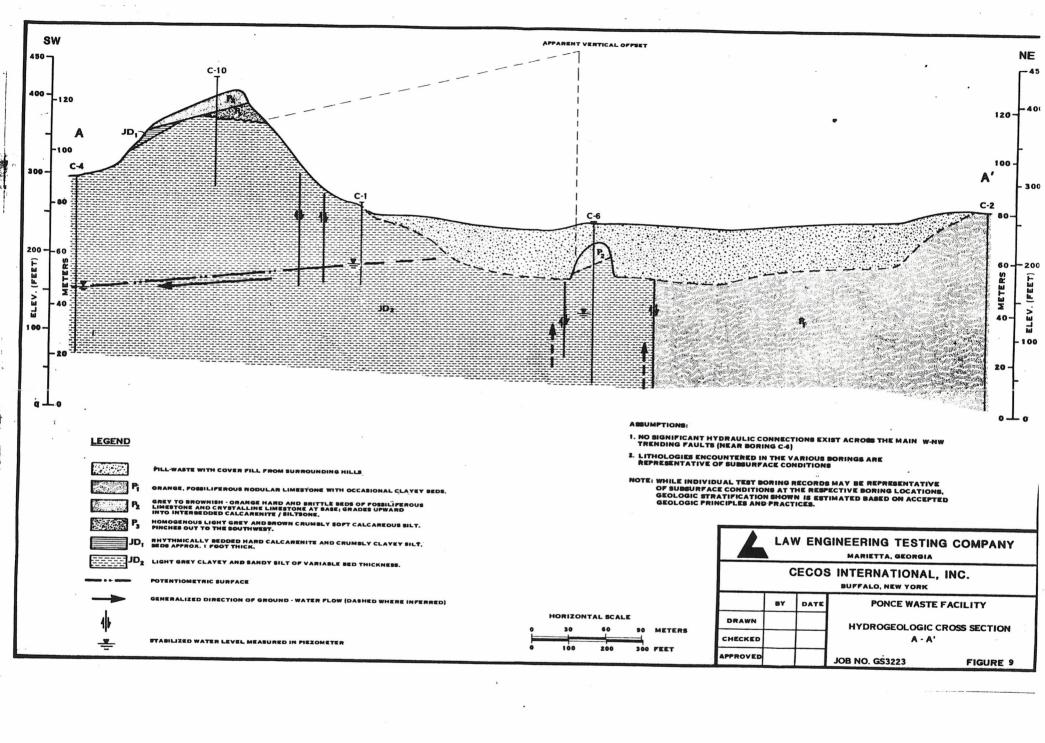
PONCE WASTE FACILITY

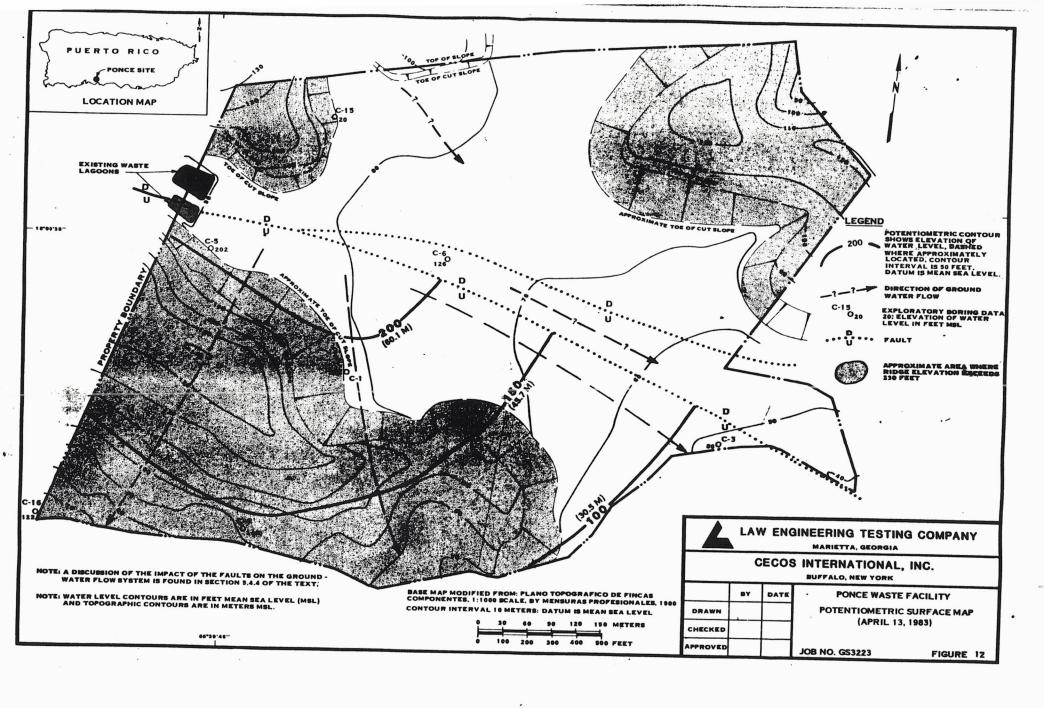
REGIONAL GEOLOGIC MAP

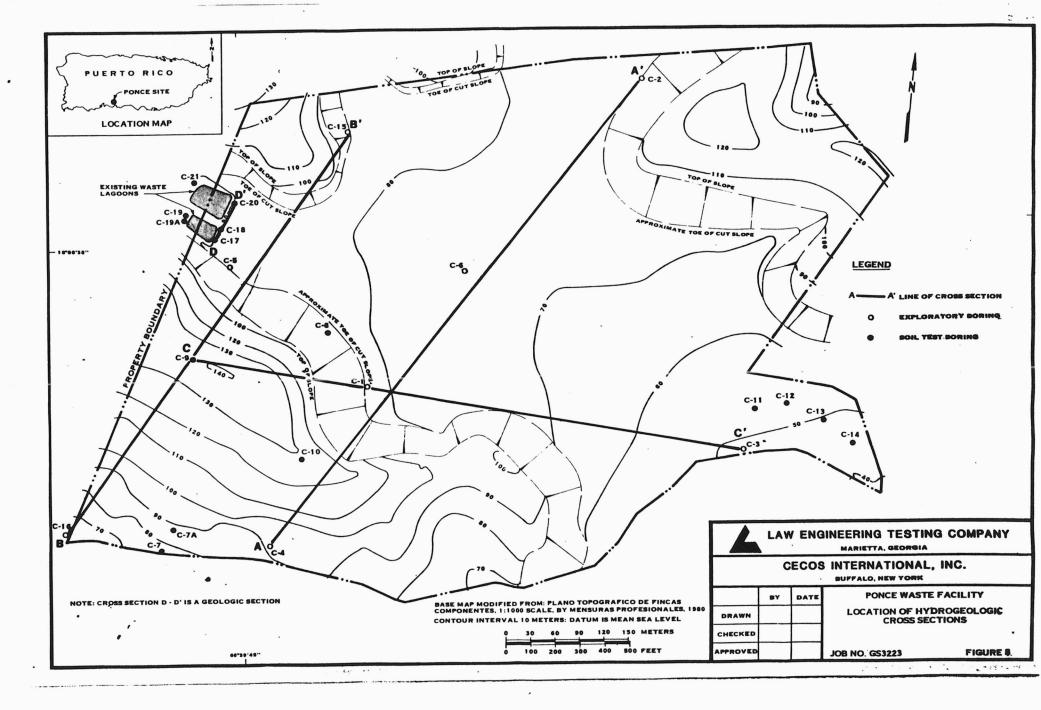
JOB NO. GS3223

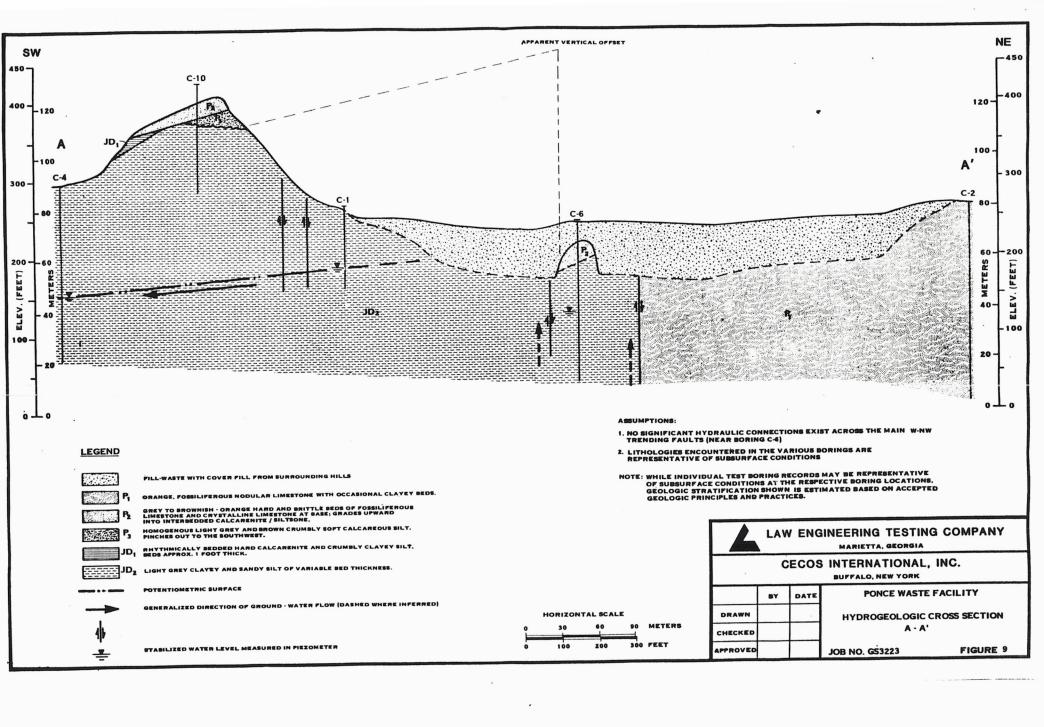
FIGURE 4











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